

United States Marine Corps

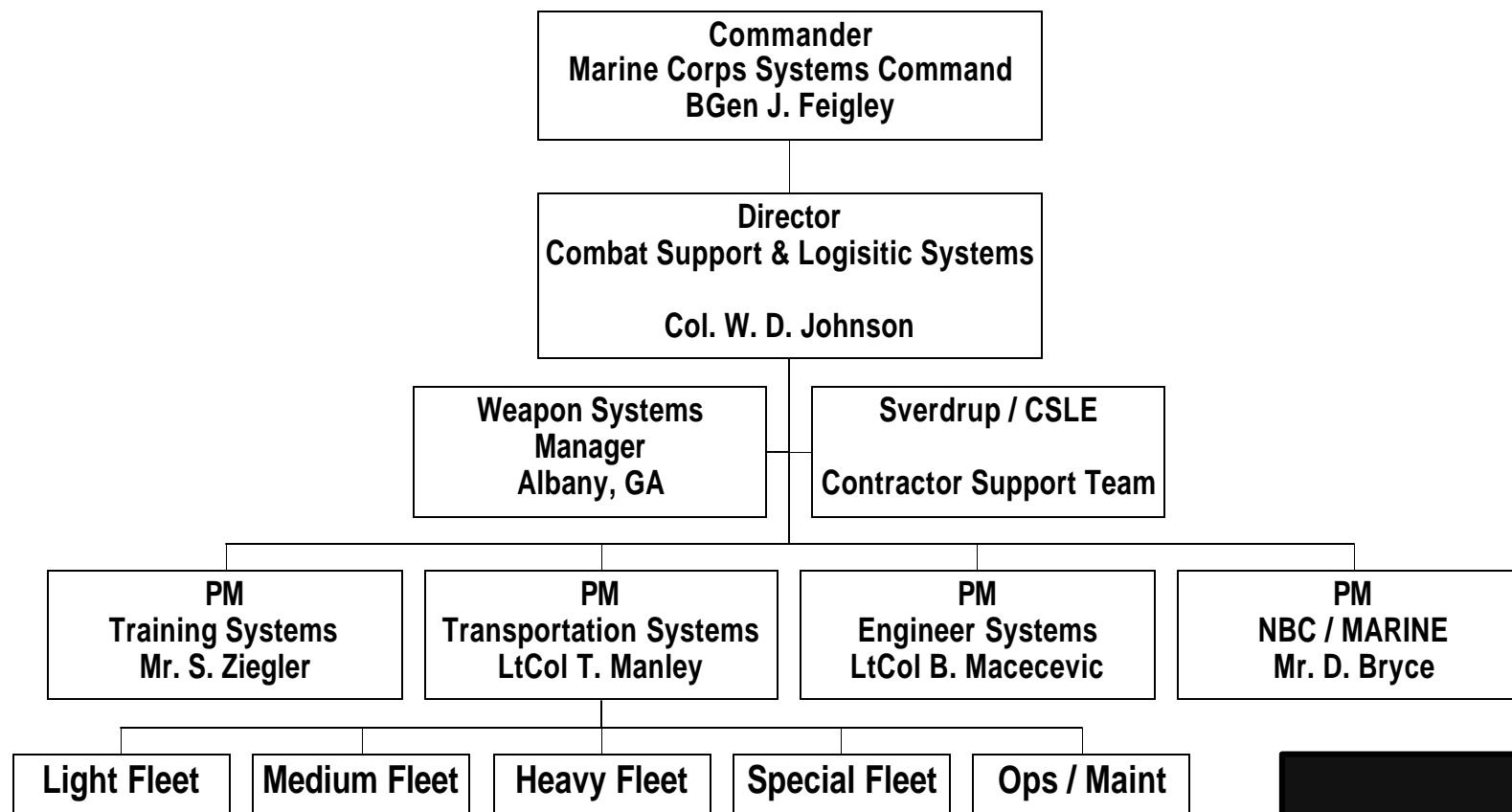


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Marine Corps Systems Command

NDIA Tactical Wheeled Vehicles Conference
29 January 2001



Organization





Introduction



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- The USMC has studied the Army's new directive for all troops to begin wearing the "Beret"
 - The USMC applauds the adjustment of core values that this change brings
 - The USMC is also investigating alternate head gear



First and foremost, all Marines are Warriors





What will Marines wear when they serve in Joint Billets



- Propeller for USAF
- Green for Army
- Purple for Joint



What will Marines wear when they serve in Special Assignments



Intelligence Functions



Support Commands



Special Assignments



Serving with Civilians



**Marine Corps
Liaison Officers
(treat us like Kings)**



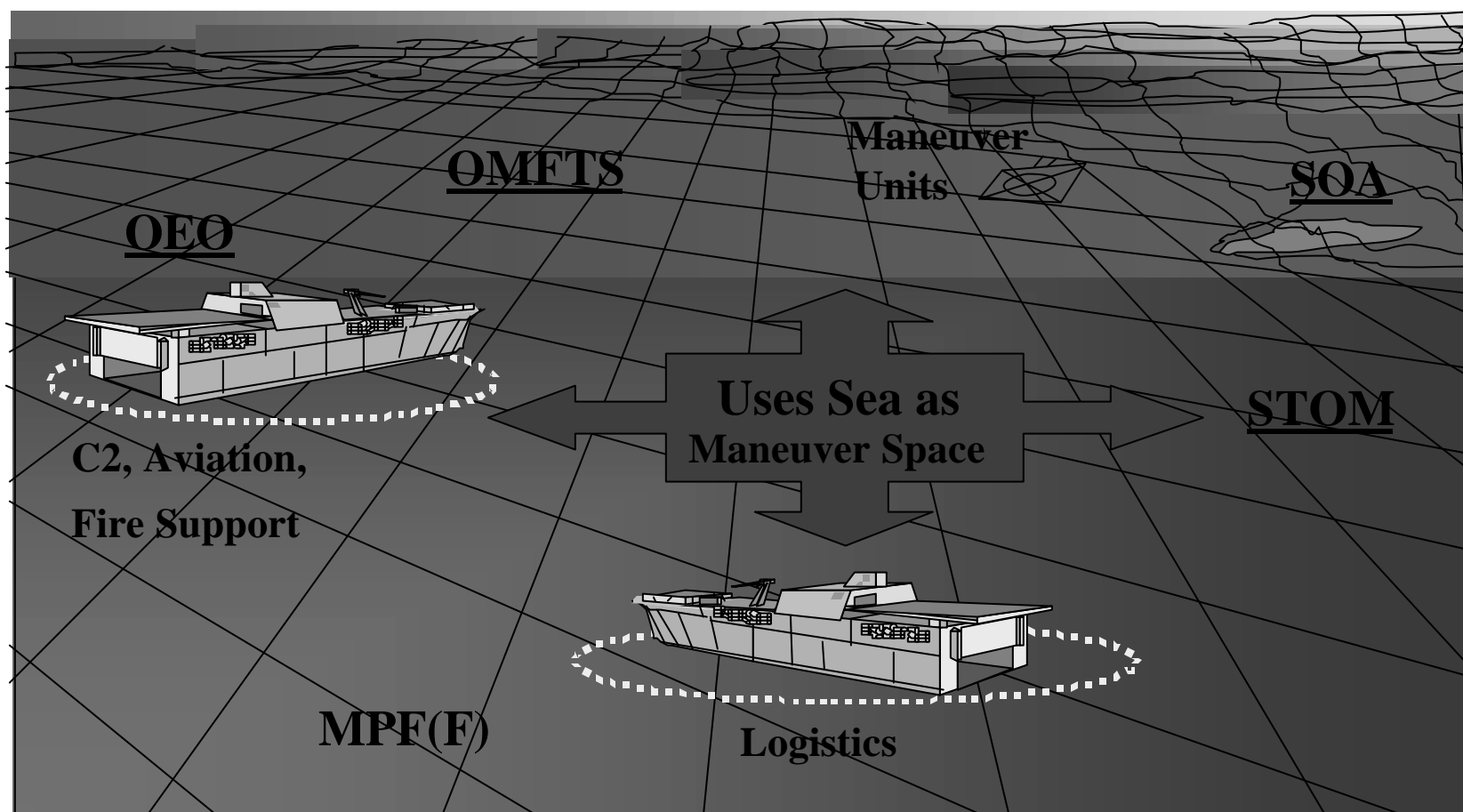
Topics



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- **USMC Expeditionary Maneuver**
 - **HMMWV A2 Fielding**
 - **Internally Transportable Vehicle (ITV)**
 - **Medium Tactical Vehicle Replacement (MTVR)**
 - **Logistic Vehicle System Replacement (LVSR)**
 - **Aviation Refueler Capability**
 - **Military Motorcycle**
 - **USMC Tactical Wheeled Vehicle Assessment**
- 8



Expeditionary Maneuver Warfare 21





USMC HMMWV A2 Fielding



Status:

- In Production
- Fielding Began December 1999
- MPF-E Fielding to begin Jan 2002
- Fielding to Complete Oct 2010

The HMMWVA2 is scheduled to replace the aging fleet of more than 17,000 HMMWVs that were originally fielded to Marine Corps units in the mid-1980s. System upgrades include: microprocessor-controlled engine electrical start system; improved braking system; more powerful EPA certified engine; electronically controlled transmission; 15-year corrosion prevention and access panels to facilitate maintenance. The use of hot dip galvanization and electro-deposition coating of selected parts improves system durability in the highly corrosive environment that Marines often train and operate in.



Helicopter Dual Lift





Internally Transportable Vehicle



Contract Award (2):	Oct 00
DT / OT Assessments	Apr - Aug 01
Downselect	Nov 01
IOT&E	Jan - Mar 02
Procurement Start:	2002
Procurement End:	???

- **Joint USMC- USSOCOM**
- **Non-Developmental Item Purchase**
- **Base Vehicle + Mission Kit for:**
 - **Weapons Carrier**
 - **Cargo / Utility**
 - **Ambulance**
 - **Command & Control**
- **Critical requirements:**
 - **Mobility \geq HMMWV**
 - **V-22, CH-47, CH-53 internal transport (plus all other A/C)**
- **USMC & USSOCOM Purchase:**
 - **2700+ Vehicles**



Internally Transportable Vehicle



FLYER
Defense

AVS
Inc.





Medium Tactical Vehicle Replacement



Replaces the 5-ton Fleet and Provides:

- Greater off-road mobility 70% vs 30%
- Greater off-road speed 30 vs 15 mph
- Greater lift capacity
 - Cross Country 7.1 tons vs 5
 - Highway 15 tons vs 10
- Improved RAM-D 4,000 MMBOMF vs 1000

Schedule

- | | |
|-----------------------|-------------|
| • Low Rate Production | On-going |
| • IOT&E | Completed |
| • FOT&E | Started |
| • Milestone III | Pending |
| • Variant Development | 2000 - 2003 |
| • Initial Fielding | 2001 |
| • Full Fielding | 2004 |





Amphib Compatibility





Amphib Compatibility





Landing Craft, Air Cushion (LCAC)





Landing Craft, Utility (LCU)





MPF-RO/RO





Ship Compatibility





External Helicopter Lift





C-130 Transport





C-17 Transport





C-141 Transport





C-5 Transport





Weapons Firing





Cold Weather Test (IOT&E)





Wrecker Variant





Towing





Dump Truck Variant





Trailer Compatibility





Mission Loading





Milestone III





USMC Multi-fuel Engine Motorcycle



Status:

- Prototypes in Testing
- Production Contract 2002
- Fielding 2002-2003
- Fielding to Complete 2003

The Marine Corps will modify its fleet of 293 gasoline powered Kawasaki KLR 650s to incorporate a multi-fuel engine which will meet the requirement for a single battlefield fuel by 2003. The engine will be capable of burning JP4, JP5, JP8, Kerosene, and diesel fuel. The multi-fuel engine is expected to fulfill all performance and RAM-D related requirements as established by the gasoline powered Kawasaki KLR 650, while delivering up to 130 miles per gallon.



USMC Aviation Refueling Capability



Status:

- Commercial Aviation Refueler
- Available from GSA Schedule
- Field User Evaluation - Feb - Apr 2001
- MS I / III - May 2001
- Production Award - June 2000

The ARC is a self propelled 5,000 gallon commercial aviation refueler capable of over-wing and under-wing refueling and defueling. The ARC will replace the M970 Semi-Trailer refueler in the Marine Air Wing. A field user evaluation of the ARC is scheduled from Feb - Apr 01 at Marine Wing Support Group 37. Upon successful completion of the evaluation, the ARC will be fielded to Marine Air Wing units for use at Marine Corps Air Stations and Expeditionary Air Fields.



Logistic Vehicle System Replacement



- USMC Heavy Haul Capability
- First Fielded 1980's
- Future replacement system needed





LVSR Status



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- **Logistic Vehicle System Replacement (LVSR) did not successfully compete in recent budget process POM-02**
 - **Anticipate a *Heavy Fleet Alternative* will compete in POM-04**
 - **Aging fleet (>1500 systems) needs to be addressed**
 - **Brake modifications underway in the Fleet**
 - **Technology Demonstrator efforts wrapping-up**
 - **Analysis of Alternatives to be completed by March 2001**
 - **USMC Overarching Tactical Wheeled Vehicle (TWV) Study will address future system needs and quantities**



USMC Overarching Tactical Wheeled Vehicle (TWV) Study



- **USMC effort to address all current / future TWV fleets (will impact Acquisition Objectives)**
- **Started - Fall 2000**
- **Completes - Summer 2001**
- **Addresses HMMWV, ITV, MTRV, LVS**
- **Scenario based (IAW DPG)**
- **Addresses mid-term (2007) and far (2015)**



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Questions ?

